CLAIMS

I claim:

- An in-vivo device comprising:
 - an image sensor; and
 - a ballast.
- 2. The device as in claim 1, wherein said ballast is capable of orienting said in-vivo device to a known orientation.
- 3. The device as in claim 1, wherein a center of gravity of said device is below a longitudinal axis of symmetry of said device.
- 4. The device as in claim 3, comprising an optical system located on a transverse side of said in-vivo device below said longitudinal axis of symmetry.
- 5. The device as in claim 4, comprising an optical system on an axial portion of said device.
- 6. The device as in claim 4, wherein an outer shell of said device comprises said optical system.
- 7. The device as in claim 3, wherein said optical system comprises a magnifying device.
- 8. The device as in claim 3, wherein said optical system is to collect light reflected from a wide angle of said in-vivo area.
- 9. The device as in claim 1, wherein said ballast is to re-orient said in vivo device in response to a movement of a body within which said in-vivo device is located.
- 10. The device as in claim 1, wherein said ballast is to change an orientation of said device in response to a magnetic field.
- 11. The device as in claim 1, wherein said ballast comprises an active component of said imaging device.
- 12. The device as in claim 1, comprising a first optical system facing in a horizontal direction and a second optical system facing in a vertical direction.
- 13. An in vivo imaging device comprising:
 - a first imager and first optical system to image in a direction parallel to an axial portion of said in vivo imaging device; and

- a second imager and second optical system to image in a direction parallel to a transverse portion of said imaging device.
- 14. The device as in claim 13, comprising a ballast to orient said device.
- 15. The device as in claim 13, comprising a curved mirror.
- 16. The device as in claim 13, wherein said second optical system is to direct light reflected from a circular field of view.
- 17. The device as in claim 13, wherein said second optical system is configured to direct light reflected off a ring shaped slice of an in-vivo area.
- 18. The device as in claim 13, wherein:

said first optical system is to collect light reflected from a first in-vivo area in front of said axial portion of said device; and

said second optical system is to collect light reflected from a second in-vivo area parallel to said transverse portion of said imaging device.

- 19. The device as in claim 13, comprising a transmitter to transmit image data collected by said image sensor.
- 20. The device as in claim 19, wherein said transmitter is configured to transmit said data on more than one channel.
- 21. The device as in claim 13, wherein said device is configured to be swallowed.
- 22. The device as in claim 13, wherein said second optical system is configured to capture light from a field of view of at least 180 degrees.
- 23. The device as in claim 13, wherein said second optical system comprises a magnifying lens.
- 24. The device as in claim 13, wherein said second optical system comprises a transparent ring-shaped shell.
- 25. A method of in vivo imaging comprising: capturing a first image of a first in-vivo area with an autonomous imaging device, said first area in front of an axial plane of said device; and capturing a second image of a second in-vivo area with said imaging device, said second area transverse to said axial plane of said device.
- 26. The method as in claim 25, wherein capturing said second image comprises capturing a panoramic image.

- 27. The method as in claim 25, comprising, within the in-vivo device, magnifying said second image.
- 28. The method as in claim 25, wherein capturing said second image comprises capturing light reflected off of a curved reflective element.
- 29. A method of in vivo imaging, comprising:

 orienting an in-vivo imaging device with a ballast; and
 capturing an image of an in-vivo area.
- 30. The method as in claim 29, comprising moving a body wherein said device is located.
- 31. The method as in claim 29, wherein said capturing comprises capturing an image of an area surrounding a transverse portion of said device.
- 32. The method as in claim 29, comprising positioning a body wherein said device is located.